

PATENT ABSTRACTS OF JAPAN

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(54) IMMERSION OIL FOR MICROSCOPE

(57)Abstract:

PURPOSE: To obtain an immersion oil for a fluorescent microscope suitable for observing a body and the like emitting fluorescence, by using a liquid diene polymer as a base oil, and compounding specified compounds.

CONSTITUTION: This immersion oil for a microscope is constituted by compounding 30W90pts.wt. of a liquid diene polymer such as polybutadiene and 5W30pts.wt. of at least one kind of compound, which is selected among the following compounds: a liquid olefin polymer such as polyethylene and polypropylene; a liquid saturated hydrocarbon such as pentane and hexane; an aliphatic saturated alcohol such as methanol and ethanol; an alicyclic alcohol such as cyclobutanol and cyclopentanol; and an ester such as unsaturated carboxylic acid ester and glycerol ester. Owing to this constitution, this immersion oil satisfies all the required performance such as dispersion property of light, refractive index and viscosity. There is no toxicity to a human body. Since the yielding amount of fluorescence is less, the immersion oil is suitable for the fluorescent microscope.

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